SEQUENCE LISTING

<110> Yu, Guo-Liang
      Ebner, Reinhard
      Ni, Jian
      Rosen, Craig A.

<120> Neutrokine-alpha and Neutrokine-alpha Splice Variants

<130> PF343P3

<140> Unassigned
<141> 2000-02-22

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<170> PatentIn Ver. 2.1

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atcaacaaac acagataaca ggaaatgatc cattccctgt ggtcacttat tctaaaggcc  120

ccaaccttca aagttcaagt agtgat atg gat gac tcc aca gaa agg gag cag  173
                               Met Asp Asp Ser Thr Glu Arg Glu Gln
                                 1               5

tca cgc ctt act tct tgc ctt aag aaa aga gaa gaa atg aaa ctg aag  221
Ser Arg Leu Thr Ser Cys Leu Lys Lys Arg Glu Glu Met Lys Leu Lys
 10              15              20                      25

gag tgt gtt tcc atc ctc cca cgg aag gaa agc ccc tct gtc cga tcc  269
Glu Cys Val Ser Ile Leu Pro Arg Lys Glu Ser Pro Ser Val Arg Ser
                30              35                      40

tcc aaa gac gga aag ctg ctg gct gca acc ttg ctg ctg gca ctg ctg  317
Ser Lys Asp Gly Lys Leu Leu Ala Ala Thr Leu Leu Leu Ala Leu Leu
            45              50                  55

tct tgc tgc ctc acg gtg gtg tct ttc tac cag gtg gcc gcc ctg caa  365
Ser Cys Cys Leu Thr Val Val Ser Phe Tyr Gln Val Ala Ala Leu Gln
        60              65                  70

ggg gac ctg gcc agc ctc cgg gca gag ctg cag ggc cac cac gcg gag  413
Gly Asp Leu Ala Ser Leu Arg Ala Glu Leu Gln Gly His His Ala Glu
    75              80                  85

aag ctg cca gca gga gca gga gcc ccc aag gcc ggc ctg gag gaa gct  461
Lys Leu Pro Ala Gly Ala Gly Ala Pro Lys Ala Gly Leu Glu Glu Ala
 90              95                  100                     105

cca gct gtc acc gcg gga ctg aaa atc ttt gaa cca cca gct cca gga  509
Pro Ala Val Thr Ala Gly Leu Lys Ile Phe Glu Pro Pro Ala Pro Gly
                110                 115                 120

gaa ggc aac tcc agt cag aac agc aga aat aag cgt gcc gtt cag ggt  557
Glu Gly Asn Ser Ser Gln Asn Ser Arg Asn Lys Arg Ala Val Gln Gly
            125                 130                 135
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cca gaa gaa aca gtc act caa gac tgc ttg caa ctg att gca gac agt    605
Pro Glu Glu Thr Val Thr Gln Asp Cys Leu Gln Leu Ile Ala Asp Ser
    140                 145                 150

gaa aca cca act ata caa aaa gga tct tac aca ttt gtt cca tgg ctt    653
Glu Thr Pro Thr Ile Gln Lys Gly Ser Tyr Thr Phe Val Pro Trp Leu
    155                 160                 165

ctc agc ttt aaa agg gga agt gcc cta gaa gaa aaa gag aat aaa ata    701
Leu Ser Phe Lys Arg Gly Ser Ala Leu Glu Glu Lys Glu Asn Lys Ile
170             175                 180                 185

ttg gtc aaa gaa act ggt tac ttt ttt ata tat ggt cag gtt tta tat    749
Leu Val Lys Glu Thr Gly Tyr Phe Phe Ile Tyr Gly Gln Val Leu Tyr
                190                 195                 200

act gat aag acc tac gcc atg gga cat cta att cag agg aag aag gtc    797
Thr Asp Lys Thr Tyr Ala Met Gly His Leu Ile Gln Arg Lys Lys Val
                205                 210                 215

cat gtc ttt ggg gat gaa ttg agt ctg gtg act ttg ttt cga tgt att    845
His Val Phe Gly Asp Glu Leu Ser Leu Val Thr Leu Phe Arg Cys Ile
            220                 225                 230

caa aat atg cct gaa aca cta ccc aat aat tcc tgc tat tca gct ggc    893
Gln Asn Met Pro Glu Thr Leu Pro Asn Asn Ser Cys Tyr Ser Ala Gly
    235                 240                 245

att gca aaa ctg gaa gaa gga gat gaa ctc caa ctt gca ata cca aga    941
Ile Ala Lys Leu Glu Glu Gly Asp Glu Leu Gln Leu Ala Ile Pro Arg
250             255                 260                 265

gaa aat gca caa ata tca ctg gat gga gat gtc aca ttt ttt ggt gca    989
Glu Asn Ala Gln Ile Ser Leu Asp Gly Asp Val Thr Phe Phe Gly Ala
                270                 275                 280

ttg aaa ctg ctg tgacctactt acaccatgtc tgtagctatt ttcctccctt
1041
Leu Lys Leu Leu
            285

tctctgtacc tctaagaaga aagaatctaa ctgaaaatac caaaaaaaaa aaaaaaaa
1100


<210> 2
<211> 285
<212> PRT
<213> Homo sapiens

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Met Asp Asp Ser Thr Glu Arg Glu Gln Ser Arg Leu Thr Ser Cys Leu
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Lys Lys Arg Glu Glu Met Lys Leu Lys Glu Cys Val Ser Ile Leu Pro
                20                  25                  30

Arg Lys Glu Ser Pro Ser Val Arg Ser Ser Lys Asp Gly Lys Leu Leu
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                35                      40                      45
Ala Ala Thr Leu Leu Leu Ala Leu Leu Ser Cys Cys Leu Thr Val Val
     50                  55                  60

Ser Phe Tyr Gln Val Ala Ala Leu Gln Gly Asp Leu Ala Ser Leu Arg
 65                  70                  75                  80

Ala Glu Leu Gln Gly His His Ala Glu Lys Leu Pro Ala Gly Ala Gly
                 85                  90                  95

Ala Pro Lys Ala Gly Leu Glu Glu Ala Pro Ala Val Thr Ala Gly Leu
            100                 105                 110

Lys Ile Phe Glu Pro Pro Ala Pro Gly Glu Gly Asn Ser Ser Gln Asn
            115                 120                 125

Ser Arg Asn Lys Arg Ala Val Gln Gly Pro Glu Glu Thr Val Thr Gln
     130                 135                 140

Asp Cys Leu Gln Leu Ile Ala Asp Ser Glu Thr Pro Thr Ile Gln Lys
145                 150                 155                 160

Gly Ser Tyr Thr Phe Val Pro Trp Leu Leu Ser Phe Lys Arg Gly Ser
                165                 170                 175

Ala Leu Glu Glu Lys Glu Asn Lys Ile Leu Val Lys Glu Thr Gly Tyr
            180                 185                 190

Phe Phe Ile Tyr Gly Gln Val Leu Tyr Thr Asp Lys Thr Tyr Ala Met
            195                 200                 205

Gly His Leu Ile Gln Arg Lys Lys Val His Val Phe Gly Asp Glu Leu
     210                 215                 220

Ser Leu Val Thr Leu Phe Arg Cys Ile Gln Asn Met Pro Glu Thr Leu
225                 230                 235                 240

Pro Asn Asn Ser Cys Tyr Ser Ala Gly Ile Ala Lys Leu Glu Glu Gly
                245                 250                 255

Asp Glu Leu Gln Leu Ala Ile Pro Arg Glu Asn Ala Gln Ile Ser Leu
            260                 265                 270

Asp Gly Asp Val Thr Phe Phe Gly Ala Leu Lys Leu Leu
            275                 280                 285


<210> 3
<211> 233
<212> PRT
<213> Homo sapiens

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Met Ser Thr Glu Ser Met Ile Arg Asp Val Glu Leu Ala Glu Glu Ala
 1               5                  10                  15

Leu Pro Lys Lys Thr Gly Gly Pro Gln Gly Ser Arg Arg Cys Leu Phe
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                20                  25                  30

Leu Ser Leu Phe Ser Phe Leu Ile Val Ala Gly Ala Thr Thr Leu Phe
        35                  40                  45

Cys Leu Leu His Phe Gly Val Ile Gly Pro Gln Arg Glu Glu Phe Pro
        50                  55                  60

Arg Asp Leu Ser Leu Ile Ser Pro Leu Ala Gln Ala Val Arg Ser Ser
65                  70                  75                  80

Ser Arg Thr Pro Ser Asp Lys Pro Val Ala His Val Val Ala Asn Pro
                85                  90                  95

Gln Ala Glu Gly Gln Leu Gln Trp Leu Asn Arg Arg Ala Asn Ala Leu
            100                 105                 110

Leu Ala Asn Gly Val Glu Leu Arg Asp Asn Gln Leu Val Val Pro Ser
            115                 120                 125

Glu Gly Leu Tyr Leu Ile Tyr Ser Gln Val Leu Phe Lys Gly Gln Gly
        130                 135                 140

Cys Pro Ser Thr His Val Leu Leu Thr His Thr Ile Ser Arg Ile Ala
145                 150                 155                 160

Val Ser Tyr Gln Thr Lys Val Asn Leu Leu Ser Ala Ile Lys Ser Pro
            165                 170                 175

Cys Gln Arg Glu Thr Pro Glu Gly Ala Glu Ala Lys Pro Trp Tyr Glu
            180                 185                 190

Pro Ile Tyr Leu Gly Gly Val Phe Gln Leu Glu Lys Gly Asp Arg Leu
            195                 200                 205

Ser Ala Glu Ile Asn Arg Pro Asp Tyr Leu Asp Phe Ala Glu Ser Gly
210                 215                 220

Gln Val Tyr Phe Gly Ile Ile Ala Leu
225                 230


<210> 4
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<212> PRT
<213> Homo sapiens

<400> 4
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 1               5                  10                  15

Leu His Leu Leu Leu Leu Gly Leu Leu Leu Val Leu Leu Pro Gly Ala
            20                  25                  30

Gln Gly Leu Pro Gly Val Gly Leu Thr Pro Ser Ala Ala Gln Thr Ala
        35                  40                  45

Arg Gln His Pro Lys Met His Leu Ala His Ser Thr Leu Lys Pro Ala
        50                  55                  60
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Ala His Leu Ile Gly Asp Pro Ser Lys Gln Asn Ser Leu Leu Trp Arg
65              70              75              80

Ala Asn Thr Asp Arg Ala Phe Leu Gln Asp Gly Phe Ser Leu Ser Asn
                85              90              95

Asn Ser Leu Leu Val Pro Thr Ser Gly Ile Tyr Phe Val Tyr Ser Gln
        100             105             110

Val Val Phe Ser Gly Lys Ala Tyr Ser Pro Lys Ala Thr Ser Ser Pro
        115             120             125

Leu Tyr Leu Ala His Glu Val Gln Leu Phe Ser Ser Gln Tyr Pro Phe
        130             135             140

His Val Pro Leu Leu Ser Ser Gln Lys Met Val Tyr Pro Gly Leu Gln
145             150             155             160

Glu Pro Trp Leu His Ser Met Tyr His Gly Ala Ala Phe Gln Leu Thr
            165             170             175

Gln Gly Asp Gln Leu Ser Thr His Thr Asp Gly Ile Pro His Leu Val
        180             185             190

Leu Ser Pro Ser Thr Val Phe Phe Gly Ala Phe Ala Leu
        195             200             205
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<210> 5
<211> 244
<212> PRT
<213> Homo sapiens

<400> 5
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Gly Ser Leu Leu Leu Ala Val Ala Gly Ala Thr Ser Leu Val Thr Leu
                20              25              30

Leu Leu Ala Val Pro Ile Thr Val Leu Ala Val Leu Ala Leu Val Pro
        35              40              45

Gln Asp Gln Gly Gly Leu Val Thr Glu Thr Ala Asp Pro Gly Ala Gln
        50              55              60

Ala Gln Gln Gly Leu Gly Phe Gln Lys Leu Pro Glu Glu Glu Pro Glu
65              70              75              80

Thr Asp Leu Ser Pro Gly Leu Pro Ala Ala His Leu Ile Gly Ala Pro
                85              90              95

Leu Lys Gly Gln Gly Leu Gly Trp Glu Thr Thr Lys Glu Gln Ala Phe
            100             105             110

Leu Thr Ser Gly Thr Gln Phe Ser Asp Ala Glu Gly Leu Ala Leu Pro
        115             120             125
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Gln Asp Gly Leu Tyr Tyr Leu Tyr Cys Leu Val Gly Tyr Arg Gly Arg
130   135   140

Ala Pro Pro Gly Gly Gly Asp Pro Gln Gly Arg Ser Val Thr Leu Arg
145   150   155   160

Ser Ser Leu Tyr Arg Ala Gly Gly Ala Tyr Gly Pro Gly Thr Pro Glu
                165   170   175

Leu Leu Leu Glu Gly Ala Glu Thr Val Thr Pro Val Leu Asp Pro Ala
                180   185   190

Arg Arg Gln Gly Tyr Gly Pro Leu Trp Tyr Thr Ser Val Gly Phe Gly
                195   200   205

Gly Leu Val Gln Leu Arg Arg Gly Glu Arg Val Tyr Val Asn Ile Ser
        210   215   220

His Pro Asp Met Val Asp Phe Ala Arg Gly Lys Thr Phe Phe Gly Ala
225   230   235   240

Val Met Val Gly

<210> 6
<211> 281
<212> PRT
<213> Homo sapiens

<220>
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      a, t, g, or c

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1   5   10   15

Ser Ser Ala Ser Ser Pro Trp Ala Pro Pro Gly Thr Val Leu Pro Cys
                20   25   30

Pro Thr Ser Val Pro Arg Arg Pro Gly Gln Arg Arg Pro Pro Pro Pro
        35   40   45

Pro Pro Pro Pro Pro Leu Pro Pro Pro Pro Pro Pro Pro Leu Pro
        50   55   60

Pro Leu Pro Leu Pro Pro Leu Lys Lys Arg Gly Asn His Ser Thr Gly
65   70   75   80

Leu Cys Leu Leu Val Met Phe Phe Met Val Leu Val Ala Leu Val Gly
                85   90   95

Leu Gly Leu Gly Met Phe Gln Leu Phe His Leu Gln Lys Glu Leu Ala
                100   105   110

Glu Leu Arg Glu Ser Thr Ser Gln Met His Thr Ala Ser Ser Leu Glu
        115   120   125

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Lys Gln Ile Gly His Pro Ser Pro Pro Pro Glu Lys Lys Glu Leu Arg
    130             135             140

Lys Val Ala His Leu Thr Gly Lys Ser Asn Ser Arg Ser Met Pro Leu
145             150             155                 160

Glu Trp Glu Asp Thr Tyr Gly Ile Val Leu Leu Ser Gly Val Lys Tyr
                165             170                 175

Lys Lys Gly Gly Leu Val Ile Asn Glu Thr Gly Leu Tyr Phe Val Tyr
            180             185             190

Ser Lys Val Tyr Phe Arg Gly Gln Ser Cys Asn Asn Leu Pro Leu Ser
        195             200             205

His Lys Val Tyr Met Arg Asn Ser Lys Tyr Pro Gln Asp Leu Val Met
    210             215             220

Met Glu Gly Lys Met Met Ser Tyr Cys Thr Thr Gly Gln Met Trp Ala
225             230             235             240

Arg Ser Ser Tyr Leu Gly Ala Val Phe Asn Leu Thr Ser Ala Asp His
            245             250             255

Leu Tyr Val Asn Val Ser Glu Leu Ser Leu Val Asn Phe Glu Glu Ser
            260             265             270

Gln Thr Phe Phe Gly Leu Tyr Lys Leu
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<212> DNA
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<220>
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      a, t, g, or c

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<223> n equals a, t, g, or c


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tcaaagttca agtagtgata tggatgactc cacagaaagg gagcagtcac gccttacttc 180
ttgccttaag aaaagagaag aaatgaaact gnaaggagtg tgtttccatc ctcccacgga 240
aggaaagccc ctctntccga tcctccaaag acggaaagct gctggctgca accttgntgn 300
tggcattgtg ttcttgctgn ctcaaggtgg tgttntt                          337



<210> 8
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<212> DNA
<213> Homo sapiens


<220>
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      a, t, g, or c


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<221> misc_feature
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agtctggtga ctttgtttcg atgtattcaa aatatgcctg aaacactacc caataattcc 180
tgctattcag ctggcattgc aaaactggna ggaaggagat gaactccaac ttgcaatacc 240
aggggaaaat gcacaattat cactgggatg gagatgttca catttttttgg gtgccattga 300
aactgctgtg acctncttac ancangtgct gttngctatt ttncctncct nttctntggt 360
aacctcttag gaaggaagga ttcttaactg ggaaataacc caaaaaaann ttaaangggt 420
angngnnana ngnggggnng ttnncnngnn gnnttttngg nntatnttnt nntngggnnn 480
ngtaaaaatg gggccnangg gggnttttt                                   509
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<210> 9
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<213> Homo sapiens

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<220>
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<223> n equals a, t, g, or c


<220>
<221> misc_feature
<222> (325)
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<220>
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tctttgaacc accagctcca ggagaaggca actccagtca gaacagcaga aataagcgtg 120
ccgttcaggg tccagaagaa acagtcactc aagactgctt gcaactgntt gcagacagtg 180
aaacaccaac tatacaaaaa ggctcccttc tgntgccaca tttgggccaa ggaatggaga 240
gatttcttcg tctggaaaca ttttgccaaa ctcttcagat actctttnct ctctgggaat 300
caaaggaaaa tctctactta gattnacaca tttgttccca tgggtntctt aagtttttaaa 360
aggggagtgc ccttaggagg aaaaggggat aaatattggc caaggnactg gttantttnt 420
aaatatggtc aggtttntat anctggtagg cctcgccatg ggcattnatt canggngagg 480
ncnntctttt gggntga                                                 497
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<210> 10
<211> 27
<212> DNA
<213> Homo sapiens

<220>
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     deoxyinosine

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gtgggatcca gcctccgggc agagctg                                       27
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<210> 11
<211> 33
<212> DNA
<213> Homo sapiens

<400> 11
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gtgaagcttt tattacagca gtttcaatgc acc                                33
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<210> 12
<211> 26
<212> DNA
<213> Homo sapiens

<400> 12
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gtgtcatgag cctccgggca gagctg                                        26
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<210> 13
<211> 33
<212> DNA
<213> Homo sapiens

<400> 13
gtgaagcttt tattacagca gtttcaatgc acc   33

<210> 14
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<212> DNA
<213> Homo sapiens

<400> 14
gtgggatccc cgggcagagc tgcagggc   28

<210> 15
<211> 33
<212> DNA
<213> Homo sapiens

<400> 15
gtgggatcct tattacagca gtttcaatgc acc   33

<210> 16
<211> 129
<212> DNA
<213> Homo sapiens

<400> 16
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ctggggctgc tcctggtgtt gcctgctgcc ttccctgccc cagttgtgag acaaggggac 120
ctggccagc   129

<210> 17
<211> 30
<212> DNA
<213> Homo sapiens

<400> 17
gtgggatcct tacagcagtt tcaatgcacc   30

<210> 18
<211> 903
<212> DNA
<213> Homo sapiens

<220>
<221> CDS
<222> (1)..(798)

<400> 18
atg gat gac tcc aca gaa agg gag cag tca cgc ctt act tct tgc ctt   48
Met Asp Asp Ser Thr Glu Arg Glu Gln Ser Arg Leu Thr Ser Cys Leu

```
        1                5                    10                   15
     aag aaa aga gaa gaa atg aaa ctg aag gag tgt gtt tcc atc ctc cca   96
     Lys Lys Arg Glu Glu Met Lys Leu Lys Glu Cys Val Ser Ile Leu Pro
                     20                25                   30

     cgg aag gaa agc ccc tct gtc cga tcc tcc aaa gac gga aag ctg ctg  144
     Arg Lys Glu Ser Pro Ser Val Arg Ser Ser Lys Asp Gly Lys Leu Leu
                 35                 40                   45

     gct gca acc ttg ctg ctg gca ctg ctg tct tgc tgc ctc acg gtg gtg  192
     Ala Ala Thr Leu Leu Leu Ala Leu Leu Ser Cys Cys Leu Thr Val Val
             50                 55                 60

     tct ttc tac cag gtg gcc gcc ctg caa ggg gac ctg gcc agc ctc cgg  240
     Ser Phe Tyr Gln Val Ala Ala Leu Gln Gly Asp Leu Ala Ser Leu Arg
         65                 70                 75                 80

     gca gag ctg cag ggc cac cac gcg gag aag ctg cca gca gga gca gga  288
     Ala Glu Leu Gln Gly His His Ala Glu Lys Leu Pro Ala Gly Ala Gly
                         85                 90                 95

     gcc ccc aag gcc ggc ctg gag gaa gct cca gct gtc acc gcg gga ctg  336
     Ala Pro Lys Ala Gly Leu Glu Glu Ala Pro Ala Val Thr Ala Gly Leu
                     100                105                  110

     aaa atc ttt gaa cca cca gct cca gga gaa ggc aac tcc agt cag aac  384
     Lys Ile Phe Glu Pro Pro Ala Pro Gly Glu Gly Asn Ser Ser Gln Asn
                 115                120                  125

     agc aga aat aag cgt gcc gtt cag ggt cca gaa gaa aca gga tct tac  432
     Ser Arg Asn Lys Arg Ala Val Gln Gly Pro Glu Glu Thr Gly Ser Tyr
             130                135                  140

     aca ttt gtt cca tgg ctt ctc agc ttt aaa agg gga agt gcc cta gaa  480
     Thr Phe Val Pro Trp Leu Leu Ser Phe Lys Arg Gly Ser Ala Leu Glu
     145                150                  155                  160

     gaa aaa gag aat aaa ata ttg gtc aaa gaa act ggt tac ttt ttt ata  528
     Glu Lys Glu Asn Lys Ile Leu Val Lys Glu Thr Gly Tyr Phe Phe Ile
                         165                170                  175

     tat ggt cag gtt tta tat act gat aag acc tac gcc atg gga cat cta  576
     Tyr Gly Gln Val Leu Tyr Thr Asp Lys Thr Tyr Ala Met Gly His Leu
                     180                185                  190

     att cag agg aag aag gtc cat gtc ttt ggg gat gaa ttg agt ctg gtg  624
     Ile Gln Arg Lys Lys Val His Val Phe Gly Asp Glu Leu Ser Leu Val
                 195                200                  205

     act ttg ttt cga tgt att caa aat atg cct gaa aca cta ccc aat aat  672
     Thr Leu Phe Arg Cys Ile Gln Asn Met Pro Glu Thr Leu Pro Asn Asn
             210                215                  220

     tcc tgc tat tca gct ggc att gca aaa ctg gaa gaa gga gat gaa ctc  720
     Ser Cys Tyr Ser Ala Gly Ile Ala Lys Leu Glu Glu Gly Asp Glu Leu
     225                230                  235                  240

     caa ctt gca ata cca aga gaa aat gca caa ata tca ctg gat gga gat  768
```

```
Gln Leu Ala Ile Pro Arg Glu Asn Ala Gln Ile Ser Leu Asp Gly Asp
              245                 250                 255
```

```
gtc aca ttt ttt ggt gca ttg aaa ctg ctg tgacctactt acaccatgtc    818
Val Thr Phe Phe Gly Ala Leu Lys Leu Leu
              260                 265
```

```
tgtagctatt ttcctccctt tctctgtacc tctaagaaga aagaatctaa ctgaaaatac 878
```

```
caaaaaaaaa aaaaaaaaaa aaaaa                                        903
```

```
<210> 19
<211> 266
<212> PRT
<213> Homo sapiens
```

```
<400> 19
Met Asp Asp Ser Thr Glu Arg Glu Gln Ser Arg Leu Thr Ser Cys Leu
  1           5                 10                  15
```

```
Lys Lys Arg Glu Glu Met Lys Leu Lys Glu Cys Val Ser Ile Leu Pro
              20                25                  30
```

```
Arg Lys Glu Ser Pro Ser Val Arg Ser Ser Lys Asp Gly Lys Leu Leu
          35                  40                45
```

```
Ala Ala Thr Leu Leu Leu Ala Leu Leu Ser Cys Cys Leu Thr Val Val
      50                  55                  60
```

```
Ser Phe Tyr Gln Val Ala Ala Leu Gln Gly Asp Leu Ala Ser Leu Arg
  65                  70                  75                  80
```

```
Ala Glu Leu Gln Gly His His Ala Glu Lys Leu Pro Ala Gly Ala Gly
                  85                  90                  95
```

```
Ala Pro Lys Ala Gly Leu Glu Glu Ala Pro Ala Val Thr Ala Gly Leu
              100                 105                 110
```

```
Lys Ile Phe Glu Pro Pro Ala Pro Gly Glu Gly Asn Ser Ser Gln Asn
              115                 120                 125
```

```
Ser Arg Asn Lys Arg Ala Val Gln Gly Pro Glu Glu Thr Gly Ser Tyr
              130                 135                 140
```

```
Thr Phe Val Pro Trp Leu Leu Ser Phe Lys Arg Gly Ser Ala Leu Glu
145                 150                 155                 160
```

```
Glu Lys Glu Asn Lys Ile Leu Val Lys Glu Thr Gly Tyr Phe Phe Ile
              165                 170                 175
```

```
Tyr Gly Gln Val Leu Tyr Thr Asp Lys Thr Tyr Ala Met Gly His Leu
              180                 185                 190
```

```
Ile Gln Arg Lys Lys Val His Val Phe Gly Asp Glu Leu Ser Leu Val
              195                 200                 205
```

```
Thr Leu Phe Arg Cys Ile Gln Asn Met Pro Glu Thr Leu Pro Asn Asn
              210                 215                 220
```

```
Ser Cys Tyr Ser Ala Gly Ile Ala Lys Leu Glu Glu Gly Asp Glu Leu
225             230             235                         240

Gln Leu Ala Ile Pro Arg Glu Asn Ala Gln Ile Ser Leu Asp Gly Asp
                245             250             255

Val Thr Phe Phe Gly Ala Leu Lys Leu Leu
            260             265
```

<210> 20
<211> 136
<212> PRT
<213> Homo sapiens

<400> 20

```
His Ser Val Leu His Leu Val Pro Ile Asn Ala Thr Ser Lys Asp Asp
  1             5             10                      15

Ser Asp Val Thr Glu Val Met Trp Gln Pro Ala Leu Arg Arg Gly Arg
            20                  25              30

Gly Leu Gln Ala Gln Gly Tyr Gly Val Arg Ile Gln Asp Ala Gly Val
        35              40                      45

Tyr Leu Leu Tyr Ser Gln Val Leu Phe Gln Asp Val Thr Phe Thr Met
     50              55                  60

Gly Gln Val Val Ser Arg Glu Gly Gln Gly Arg Gln Glu Thr Leu Phe
 65                 70                  75                  80

Arg Cys Ile Arg Ser Met Pro Ser His Pro Asp Arg Ala Tyr Asn Ser
            85                  90                      95

Cys Tyr Ser Ala Gly Val Phe His Leu His Gln Gly Asp Ile Leu Ser
            100             105                     110

Val Ile Ile Pro Arg Ala Arg Ala Lys Leu Asn Leu Ser Pro His Gly
        115             120                     125

Thr Phe Leu Gly Phe Val Lys Leu
        130             135
```

<210> 21
<211> 462
<212> DNA
<213> Homo sapiens

<400> 21
```
atggctgttc agggtccgga agaaaccgtt actcaggact gccttcagct gatcgcagac 60
tctgaaactc cgaccatcca gaaaggttct tacacctttg ttccttggct gctttctttc 120
aaacgtggtt ctgccctgga agagaaagaa aacaaaatcc tggttaaaga aactggttac 180
ttctttatct acggtcaggt tctttacact gataagacct acgccatggg tcacctgatt 240
cagcgtaaga aagttcacgt tttcggtgac gagctgtctc tggttactct gtttcgctgc 300
attcagaaca tgccggaaac tcttcctaac aactcctgct actctgctgg catcgcaaaa 360
ctggaagagg gtgatgaact gcagctggca attcctcgtg aaaacgcaca aatttctctg 420
```

```
gacggtgatg taaccttctt tggtgcactg aaacttctgt aa                    462
```

```
<210> 22
<211> 1040
<212> DNA
<213> Homo sapiens

<220>
<221> CDS
<222> (1)..(468)

<400> 22
cgc gtg gta gac ctc tca gct cct cct gca cca tgc ctg cct gga tgc    48
Arg Val Val Asp Leu Ser Ala Pro Pro Ala Pro Cys Leu Pro Gly Cys
 1               5                  10                  15

cgc cat tct caa cat gat gat aat gga atg aac ctc aga aac aga act    96
Arg His Ser Gln His Asp Asp Asn Gly Met Asn Leu Arg Asn Arg Thr
                20                  25                  30

tac aca ttt gtt cca tgg ctt ctc agc ttt aaa aga gga aat gcc ttg   144
Tyr Thr Phe Val Pro Trp Leu Leu Ser Phe Lys Arg Gly Asn Ala Leu
            35                  40                  45

gag gag aaa gag aac aaa ata gtg gtg agg caa aca ggc tat ttc ttc   192
Glu Glu Lys Glu Asn Lys Ile Val Val Arg Gln Thr Gly Tyr Phe Phe
        50                  55                  60

atc tac agc cag gtt cta tac acg gac ccc atc ttt gct atg ggt cat   240
Ile Tyr Ser Gln Val Leu Tyr Thr Asp Pro Ile Phe Ala Met Gly His
 65                  70                  75                  80

gtc atc cag agg aag aaa gta cac gtc ttt ggg gac gag ctg agc ctg   288
Val Ile Gln Arg Lys Lys Val His Val Phe Gly Asp Glu Leu Ser Leu
                85                  90                  95

gtg acc ctg ttc cga tgt att cag aat atg ccc aaa aca ctg ccc aac   336
Val Thr Leu Phe Arg Cys Ile Gln Asn Met Pro Lys Thr Leu Pro Asn
            100                 105                 110

aat tcc tgc tac tcg gct ggc atc gcg agg ctg gaa gaa gga gat gag   384
Asn Ser Cys Tyr Ser Ala Gly Ile Ala Arg Leu Glu Glu Gly Asp Glu
            115                 120                 125

att cag ctt gca att cct cgg gag aat gca cag att tca cgc aac gga   432
Ile Gln Leu Ala Ile Pro Arg Glu Asn Ala Gln Ile Ser Arg Asn Gly
        130                 135                 140

gac gac acc ttc ttt ggt gcc cta aaa ctg ctg taa ctcacttgct        478
Asp Asp Thr Phe Phe Gly Ala Leu Lys Leu Leu
145                 150                 155

ggagtgcgtg atccccttcc ctcgtcttct ctgtacctcc gagggagaaa cagacgactg 538

gaaaaactaa aagatgggga aagccgtcag cgaaagtttt ctcgtgaccc gttgaatctg 598

atccaaacca ggaaatataa cagacagcca caaccgaagt gtgccatgtg agttatgaga 658
```

```
aacggagccc gcgctcagaa agaccggatg aggaagaccg ttttctccag tcctttgcca 718

acacgcaccg caaccttgct ttttgccttg ggtgacacat gttcagaatg cagggagatt 778

tccttgtttt gcgatttgcc atgagaagag ggcccacaac tgcaggtcac tgaagcattc 838

acgctaagtc tcaggattta ctctcccttc tcatgctaag tacacacacg ctcttttcca 898

ggtaatacta tgggatacta tggaaaggtt gtttgttttt aaatctagaa gtcttgaact 958

ggcaatagac aaaaatcctt ataaattcaa gtgtaaaata aacttaatta aaaaggttta
1018

agtgtgaaaa aaaaaaaaaa aa
1040
```

<210> 23
<211> 155
<212> PRT
<213> Homo sapiens

<400> 23
```
Arg Val Val Asp Leu Ser Ala Pro Pro Ala Pro Cys Leu Pro Gly Cys
1               5                   10                  15
Arg His Ser Gln His Asp Asp Asn Gly Met Asn Leu Arg Asn Arg Thr
            20                  25                  30
Tyr Thr Phe Val Pro Trp Leu Leu Ser Phe Lys Arg Gly Asn Ala Leu
        35                  40                  45
Glu Glu Lys Glu Asn Lys Ile Val Val Arg Gln Thr Gly Tyr Phe Phe
    50                  55                  60
Ile Tyr Ser Gln Val Leu Tyr Thr Asp Pro Ile Phe Ala Met Gly His
65                  70                  75                  80
Val Ile Gln Arg Lys Lys Val His Val Phe Gly Asp Glu Leu Ser Leu
                85                  90                  95
Val Thr Leu Phe Arg Cys Ile Gln Asn Met Pro Lys Thr Leu Pro Asn
            100                 105                 110
Asn Ser Cys Tyr Ser Ala Gly Ile Ala Arg Leu Glu Glu Gly Asp Glu
            115                 120                 125
Ile Gln Leu Ala Ile Pro Arg Glu Asn Ala Gln Ile Ser Arg Asn Gly
    130                 135                 140
Asp Asp Thr Phe Phe Gly Ala Leu Lys Leu Leu
145                 150                 155
```

<210> 24
<211> 26
<212> DNA
<213> Homo sapiens

<400> 24
```
ccaccagctc caggagaagg caactc                                    26
```

<210> 25
<211> 19
<212> DNA
<213> Homo sapiens
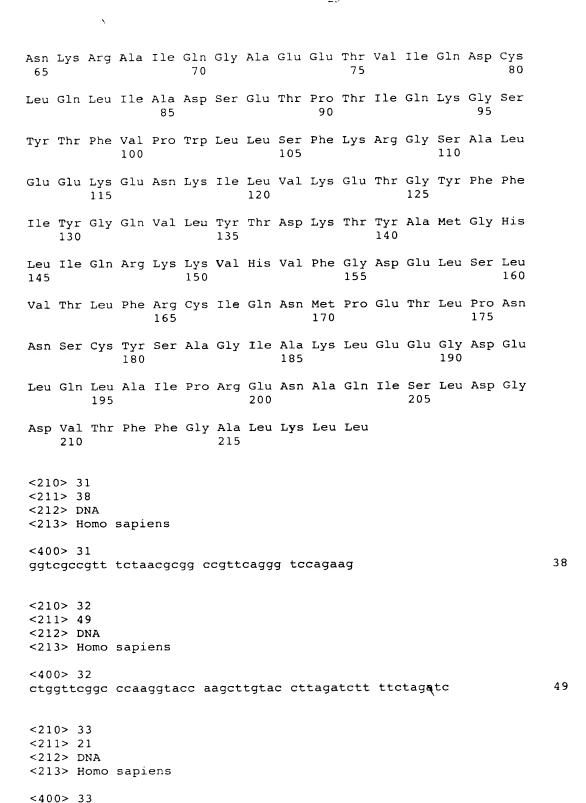
<400> 25
accgcgggac tgaaaatct   19

<210> 26
<211> 23
<212> DNA
<213> Homo sapiens

<400> 26
cacgcttatt tctgctgttc tga   23

<210> 27
<211> 657
<212> DNA
<213> Homo sapiens

<400> 27
taccaggtgg cggccgtgca aggggacctg gccagcctcc gggcagagct gcaggccac 60
cacgcggaga agctgccagc aagagcaaga gcccccaagg ccggtctggg ggaagctcca 120
gctgtcaccg caggactgaa aatctttgaa ccaccagctc caggagaagg caactccagt 180
cagagcagca gaaataagcg tgctattcag ggtgcagaag aaacagtcat tcaagactgc 240
ttgcaactga ttgcagacag tgaaacacca actatacaaa aaggatctta cacatttgtt 300
ccatggcttc tcagctttaa aaggggaagt gccctagaag aaaaagagaa taaaatattg 360
gtcaaagaaa ctggttactt ttttatatat ggtcaggttt tatacactga taagacctat 420
gccatgggac atctaattca gaggaaaaaa gtccatgtct ttggggatga attgagtctg 480
gtgactttgt ttcgatgtat tcaaaatatg cctgaaacac tacccaataa ttcctgctat 540
tcagctggca ttgcaaaact ggaagaagga gatgaacttc aacttgcaat accacgagaa 600
aatgcacaaa tatcactgga tggagatgtc acatttttg gtgccctcaa actgctg 657

<210> 28
<211> 219
<212> PRT
<213> Homo sapiens

<400> 28
Tyr Gln Val Ala Ala Val Gln Gly Asp Leu Ala Ser Leu Arg Ala Glu
1   5   10   15

Leu Gln Gly His His Ala Glu Lys Leu Pro Ala Arg Ala Arg Ala Pro
            20   25   30

Lys Ala Gly Leu Gly Glu Ala Pro Ala Val Thr Ala Gly Leu Lys Ile
        35   40   45

Phe Glu Pro Pro Ala Pro Gly Glu Gly Asn Ser Ser Gln Ser Ser Arg
    50   55   60

Asn Lys Arg Ala Ile Gln Gly Ala Glu Glu Thr Val Ile Gln Asp Cys
65   70   75   80

Leu Gln Leu Ile Ala Asp Ser Glu Thr Pro Thr Ile Gln Lys Gly Ser
                85   90   95

Tyr Thr Phe Val Pro Trp Leu Leu Ser Phe Lys Arg Gly Ser Ala Leu
                100   105   110

```
Glu Glu Lys Glu Asn Lys Ile Leu Val Lys Glu Thr Gly Tyr Phe Phe
        115                 120                 125

Ile Tyr Gly Gln Val Leu Tyr Thr Asp Lys Thr Tyr Ala Met Gly His
        130                 135                 140

Leu Ile Gln Arg Lys Lys Val His Val Phe Gly Asp Glu Leu Ser Leu
145                 150                 155                 160

Val Thr Leu Phe Arg Cys Ile Gln Asn Met Pro Glu Thr Leu Pro Asn
                165                 170                 175

Asn Ser Cys Tyr Ser Ala Gly Ile Ala Lys Leu Glu Glu Gly Asp Glu
                180                 185                 190

Leu Gln Leu Ala Ile Pro Arg Glu Asn Ala Gln Ile Ser Leu Asp Gly
            195                 200                 205

Asp Val Thr Phe Phe Gly Ala Leu Lys Leu Leu
        210                 215
```

```
<210> 29
<211> 657
<212> DNA
<213> Homo sapiens

<400> 29
taccaggtgg cggccgtgca aggggacctg gccagcctcc gggcagagct gcagagccac  60
cacgcggaga agctgccagc aagagcaaga gcccccaagg ccggtctggg ggaagctcca 120
gctgtcaccg cgggactgaa aatctttgaa ccaccagctc caggagaagg caactccagt 180
cagagcagca gaaataagcg tgctattcag ggtgcagaag aaacagtcat tcaagactgc 240
ttgcaactga ttgcagacag tgaaacacca actatacaaa aaggatctta cacatttgtt 300
ccatggcttc tcagctttaa aaggggaagt gccctagaag aaaaagagaa taaaatattg 360
gtcaaagaaa ctggttactt ttttatatat ggtcaggttt tatacactga taagacctat 420
gccatgggac atctaattca gaggaaaaaa gtccatgtct ttggggatga attgagtctg 480
gtgactttgt ttcgatgtat tcaaaatatg cctgaaacac tacccaataa ttcctgctat 540
tcagctggca ttgcaaaact ggaagaaggg gatgaacttc aacttgcaat accacgagaa 600
aatgcacaaa tatcactgga tggagatgtc acatttttg gtgccctcaa actgctg     657
```

```
<210> 30
<211> 219
<212> PRT
<213> Homo sapiens

<400> 30
Tyr Gln Val Ala Ala Val Gln Gly Asp Leu Ala Ser Leu Arg Ala Glu
  1               5                 10                  15

Leu Gln Ser His His Ala Glu Lys Leu Pro Ala Arg Ala Arg Ala Pro
            20                  25                  30

Lys Ala Gly Leu Gly Glu Ala Pro Ala Val Thr Ala Gly Leu Lys Ile
        35                  40                  45

Phe Glu Pro Pro Ala Pro Gly Glu Gly Asn Ser Ser Gln Ser Ser Arg
        50                  55                  60
```

```
Asn Lys Arg Ala Ile Gln Gly Ala Glu Glu Thr Val Ile Gln Asp Cys
 65              70              75              80

Leu Gln Leu Ile Ala Asp Ser Glu Thr Pro Thr Ile Gln Lys Gly Ser
             85              90              95

Tyr Thr Phe Val Pro Trp Leu Leu Ser Phe Lys Arg Gly Ser Ala Leu
            100             105             110

Glu Glu Lys Glu Asn Lys Ile Leu Val Lys Glu Thr Gly Tyr Phe Phe
            115             120             125

Ile Tyr Gly Gln Val Leu Tyr Thr Asp Lys Thr Tyr Ala Met Gly His
    130             135             140

Leu Ile Gln Arg Lys Lys Val His Val Phe Gly Asp Glu Leu Ser Leu
145             150             155             160

Val Thr Leu Phe Arg Cys Ile Gln Asn Met Pro Glu Thr Leu Pro Asn
            165             170             175

Asn Ser Cys Tyr Ser Ala Gly Ile Ala Lys Leu Glu Glu Gly Asp Glu
            180             185             190

Leu Gln Leu Ala Ile Pro Arg Glu Asn Ala Gln Ile Ser Leu Asp Gly
            195             200             205

Asp Val Thr Phe Phe Gly Ala Leu Lys Leu Leu
210             215
```

```
<210> 31
<211> 38
<212> DNA
<213> Homo sapiens

<400> 31
ggtcgccgtt tctaacgcgg ccgttcaggg tccagaag                    38


<210> 32
<211> 49
<212> DNA
<213> Homo sapiens

<400> 32
ctggttcggc ccaaggtacc aagcttgtac cttagatctt ttctagatc        49


<210> 33
<211> 21
<212> DNA
<213> Homo sapiens

<400> 33
ctggtagttc ttcggagtgt g                                      21
```

```
<210> 34
<211> 19
<212> DNA
<213> Homo sapiens

<400> 34
cgcgttagaa acggcgacc                                                    19


<210> 35
<211> 22
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (7)
<223> n equals deoxyinosine

<220>
<221> misc_feature
<222> (12)
<223> n equals deoxyinosine

<220>
<221> misc_feature
<222> (16)
<223> n equals deoxyinosine

<400> 35
taccagntgg cngccntgca ag                                                22


<210> 36
<211> 22
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (3)
<223> n equals deoxyinosine

<220>
<221> misc_feature
<222> (14)
<223> n equals deoxyinosine

<220>
<221> misc_feature
<222> (16)..(17)
<223> n equals deoxyinosine

<400> 36
gtnacagcag tttnanngca cc                                                22

<210> 37
<211> 866
<212> DNA
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<210> Mus musculus

<400> 37
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atggatgagt ctgcaaagac cctgccacca ccgtgcctct gtttttgctc cgagaaagga 60
gaagatatga aagtgggata tgatcccatc actccgcaga aggaggaggg tgcctggttt 120
gggatctgca gggatggaag gctgctggct gctaccctcc tgctggccct gttgtccagc 180
agtttcacag cgatgtcctt gtaccagttg gctgccttgc aagcagacct gatgaacctg 240
cgcatggagc tgcagagcta ccgaggttca gcaacaccag ccgccgcggg tgctccagag 300
ttgaccgctg gagtcaaact cctgacaccg gcagctcctc gaccccacaa ctccagccgc 360
ggccacagga acagacgcgc cttccaggga ccagaggaaa cagaacaaga tgtagacctc 420
tcagctcctc ctgcaccatg cctgcctgga tgccgccatt ctcaacatga tgataatgga 480
atgaacctca gaaacatcat tcaagactgt ctgcagctga ttgcagacag cgacacgccg 540
gccttggagg agaaagagaa caaaatagtg gtgaggcaaa caggctattt cttcatctac 600
agccaggttc tatacacgga ccccatcttt gctatgggtc atgtcatcca gaggaagaaa 660
gtacacgtct ttggggacga gctgagcctg gtgaccctgt tccgatgtat tcagaatatg 720
cccaaaacac tgcccaacaa ttcctgctac tcggctggca tcgcgaggct ggaagaagga 780
gatgagattc agcttgcaat tcctcgggag aatgcacaga tttcacgcaa cggagacgac 840
accttctttg gtgccctaaa actgct 866
```

<210> 38
<211> 177
<212> DNA
<213> Mus musculus

<400> 38
```
mdsaktcccs kgdmkvgydt kgawgcrdgr aatassstam syaaadmnrm syrgsataaa 60
gatagvktaa rhnssrghrn rragtdvdsa acgcrhshdd ngmnrndcad sdtaknkvvr 120
tgyysvytda mghvrkkvhv gdsvtrcnmk tnnscysaga rgdarnasrn gddtgak 177
```